

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.: 10/003,725 Confirmation No. 2647

Applicants: **Stapleton** Filed: **October 30, 2001**

TC/A.C.: 2817

Examiner: Choe, Henry Docket No.: BWD:2353.005

Title: HIGH EFFICIENCY POWER AMPLIFIER SYSTEMS AND METHODS

Customer No.: 23400

Date: January 23, 2004

Certificate of Mailing

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Date

Kristi Green

INFORMATION DISCLOSURE STATEMENT

Commissioner For Patents P O Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §1.56 and in compliance with 37 C.F.R. §§1.97 and 1.98, the references listed on attached Form PTO/SB/08 and/or subsequently identified herein, are being submitted herewith for consideration by the United States Patent and Trademark Office.

I. COPIES

a. A legible copy of (i) each U.S. and foreign patents; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed, is included herewith.

b. Any patents, publications or other information which are listed on PTO/SB/08 which are not enclosed herewith were previously cited by or submitted to the

PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. §120:

U.S. Serial Number

U.S. Filing Date

II.	CONC	SISE EXPLANATION (OF THE RELEVANC	E (check at leas	st one box)
	a. 🛛	Except as may be inc	dicated below in (b)	of this section,	, all of the patents,
		publications or other	r information are in	the English	language (concise
		explanation not require	ed).		
	b. 🗌	A concise explanation	n of the relevance of	all patents, pu	ublications or other
		information listed that	is not in the English l	anguage is as fo	ollows:
	c. 🗌	The following addit	tional information i	s provided fo	or the Examiner's
		consideration:			
Ш. [-	S REFERENCE TO R			
		examiner is advised th	_		• • • • • • • • • • • • • • • • • • • •
	subjec	t matter that may be	related to the prese	nt application.	By bringing this
	(these)) applications to the E	Examiner's attention,	Applicant(s)	does(do) not waive
	the co	nfidentiality provisions	s of 35 U.S.C. §122.		
	Serial	No.	Filing Date	Art U	Unit
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IV. 🔀		IDS IS BEING FILED	-	, ,	-
	a	within three months	_		incation (37 C.F.R.
	. —	§1.97(b)(1)). No fee	-		
	b	within three months of	-		_
		1.491 in an internati		C.F.R. §1.97	(b)(2)). No fee or
		statement is required.			
	c. 🗌	before the mailing d	late of a first Office	Action on the	merits (37 C.F.R.
		§1.97(b)(3)). No fee	or statement is requir	ed.	
	$d. \boxtimes$	In the event that a fir	rst Office Action on	the merits has	been issued, please
		consider this IDS un	der 37 C.F.R. §1.97(c) and see the	statement under 37
		C.F.R. §1.97(e) prov	rided below, or if no	statement has	been made, charge
		deposit account 50-1	147 the fee set forth	in 37 C.F.R. §1	1.17(p).

V. 🛛	THIS IDS IS BEING FILED UNDER 37 C.F.R. §1.97(c): (check one box)				
	before	efore the mailing date of either a Final Office Action under 37 C.F.R. §1.113 (See			
		F.R. §1.97(c)), or a Notice of Allowance under 37 C.F.R. §1.311 (See 37			
		§1.97(c)).			
	a. 🗍	No statement; therefore, charge deposit account 50-1147 the fee set forth in			
	 L	37 C.F.R. §1.17(p).			
	b. 🛛	See the statement below. No fee is required.			
VI. 🗌	THIS	IDS IS BEING FILED UNDER 37 C.F.R. §1.97(d):			
	on or b	pefore payment of the issue fee and is accompanied by the following:			
	1)	a statement under 37 C.F.R. §1.97(e) as provided below;			
	2)	Applicant(s) hereby a petition for consideration of this information			
	2)	disclosure statement; and			
	3)	charge deposit account 50-1147 the petition fee set forth in §1.17(i).			
	3)	charge deposit account 50-1147 the petition fee set form in §1117(1).			
VII.		nent under 37 C.F.R. §1.97(e) (check only one box, if applicable) indersigned hereby states that			
	a.	each item of information contained in the IDS was cited in a			
		communication from a foreign Patent Office is a counterpart foreign			
		application not more than three months prior to the filing of IDS; or			
	b .⊠	no item of information contained in the IDS was cited in a communication			
	٧.٢	from a foreign Patent Office in a counterpart foreign application, and to			
		knowledge of the person signing the statement after making reasonable			
		inquiry, no item of information contained in the IDS was known to any			
		individual designated in 37 C.F.R. 1.56(c) more than three months prior to			
		the filing of this statement, or			
	c	some of the items of information contained in the IDS were cited in a			
		communication from a foreign Patent Office. As to this information, the			
		undersigned states that each item of information contained in the IDS was			
		cited in a communication from a foreign Patent Office in a counterpart			
		foreign application not more than three months prior to the filing of this			
		IDS. As to the remaining information, the undersigned hereby states that no			
		item of this remaining information contained in the IDS was cited in a			
		communication from a foreign Patent Office in a counterpart foreign			
		application or, to the knowledge of the person signing the statement after			
		making reasonable inquiry, no item of information contained in the IDS was			

known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this statement.

VШ.	PA	$\mathbf{Y}\mathbf{N}$	IENT	OF	FEES

	A check in the amount of is enclosed for the above-identified
	fee(s).
	Please charge Deposit Account No. 50-1147 in the amount of \$
	for the above-indicated fee(s).
\boxtimes	If Applicant has overlooked any additional fees, or if any overpayment has
	been made, the Commissioner is hereby authorized to credit or debit
	Deposit Account 50-1147.

The above references are being cited only in the interests of candor and without any admission that they constitute statutory prior art or contain matter which anticipates the invention or which would render the same obvious, either singly or in a combination, to a person or ordinary skill in the art.

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 50-1147.

Respectfully submitted,

Chali w. Bethard

Charles W. Bethards

Reg. No. 36,453

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			Page 1 of
ATTY. DKT	BWD:2353.005/34-001	SER. NO.	10/003,727
APPLICANT	Stapleton		
FILING DATE	October 30, 2001	GROUP	

REFERENCE DESIGNATION

PTO-1449

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
	AA	5,352,986	October 4, 1994	Modgil et al	330/10	330/107
	AB	4,843,339	June 27, 1989	Burt et al	330/10	328/151
	AC	6,373,334 B1	April 16, 2002	Melanson	330/10	330/207
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	AE	6,577,189 B2	June 10, 2003	Jayaraman etal	330/107	330/10
	AF	5,777,512	July 7, 1998	Tripathi et al	330/207A	330/110
	AG	6,191,653	February 20, 2001	Camp,Jr.et al	330/129	330/10

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

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	AI	Anderson, A NEW APPLICATION FOR ZERO-CURRENT-SWITCHED FULL-WAVE RESONANT CONVERTERS, European Power Electronics Ass. 1993, pp 83-86.		
	AJ	Luckjiff, Dobson, Divan, Interpolative Sigma Delta Modulators for High Frequency Power Electronic Applications, IEEE June 18, 1995, pp 444-449.		
	AK	Ballan, Declercq, 12V Σ-Δ AMPLIFIER IN 5V CMOS TECHNOLOGY, IEEE 1995 Custom Integrated Circuits Conference, pp 26.5.1-26.54		
	AL	Opris & Kovacs, A Video bandwidth Analog Median Circuit, IEEE 1995 Custom Integrated Circuits Conference, pp 26.4.1-26.4.4		
EXAMINER	<u></u>	DATE CONSIDERED		
Rev. 10/94 (Fo	rm 3 05			

Rev. 10/94 (Form 3.05)